Partnering for Performance to Achieve Life Cycle Sustainment Outcomes

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LOCKHEED MARTIN

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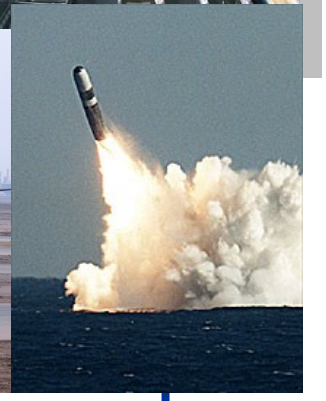
LM Product Support



Delivering Life Cycle Sustainment Outcomes Today

LM Product Support

Committed to Life Cycle Sustainment

Outcomes for Tomorrow

Delivering Outcomes Today

Key Enabler	LM Implementation
IUID/RFID	Enterprise Wide AIT Roadmap
Tech Data/IETMs	S1000D
CBM+	PHM; Prognostics; EPLS
CPI	LM21
Depot Core	Partnering for Performance
DMSMS	MTBOF
Training	Embedded
SCM	SCM+
Predictive	SEM

PBL

PBA

- Availability
- Reliability
- Cost per Operating Hour

LM Approach

- BIC Supply Chain Performance
- Comprehensive Partnering
- Increasing Availability
- Reduce Operating Costs Over Time
- Comprehensive Visibility

PBL Established the Business Environment to Inherently Achieve Life Cycle Sustainment Outcomes

USMC Embedded Platform Logistics System

Achieving Life Cycle Outcomes TODAY!

Supportability in the System Life Cycle

Concept Development

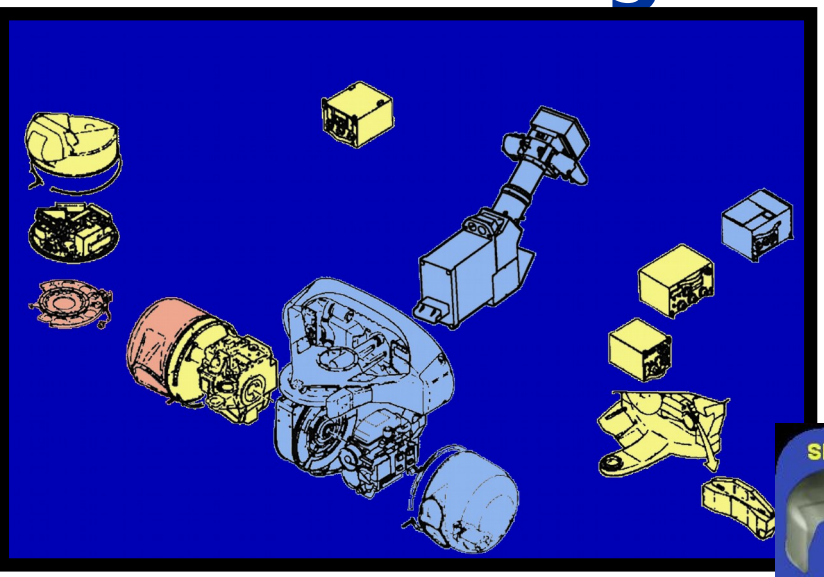
- **Define the "system"**
  - **LRU definition/req'ts (RAM, HFE, Safety)**
  - **Functional partitioning (BIT)**
  - **Physical partitioning (M, HFE)**
- **Harmonize the design and support concepts for optimum (minimum) LCC by performing CAIV trade studies**
  - **Develop O&S cost model**
  - **Derive/allocate system RAM/T design requirements**
  - **Derive BIT/testability concept**
  - **Refine optimum H/W partitioning approach**
  - **Prelim. system safety assessment**
- **Define top level support structure for the system**
  - **Maintenance Concept**
  - **Publications concept**
  - **Ope**
  - **PHS&T approach**
  - **Facilities**

SDD

- **Influence the design process to yield supportable design**
  - **Perform detailed, iterative RAM/BIT/Testability analyses (R,M,T predictions, derating, FMECA)**
  - **Plan & execute reliab. assurance and BIT testing**
  - **Perform Logistics Support Analysis**
    - **Level of Repair Analysis (LORA)**
    - **Reliability Centered Maintenance (RCM)**
    - **Maintenance Task Analysis**
    - **Identify tool and support equipment reqts**
- **Create and deliver a comprehensive system support package to support operational test and deployment**
  - **Generate spares requirements & provisioning**
  - **Generate O&M publications**
  - **Develop training curriculum**
  - **Develop and build/buy support equipment**
  - **raining devices**

Get the right "recipe" ← ***Get the "recipe" right***

Design for Sustainment



Old Logistics
TADS/PNVS
27 LRUs, 0 LRMs

3 Level Maintenance

TEDAC

M-PEU

M-TPS

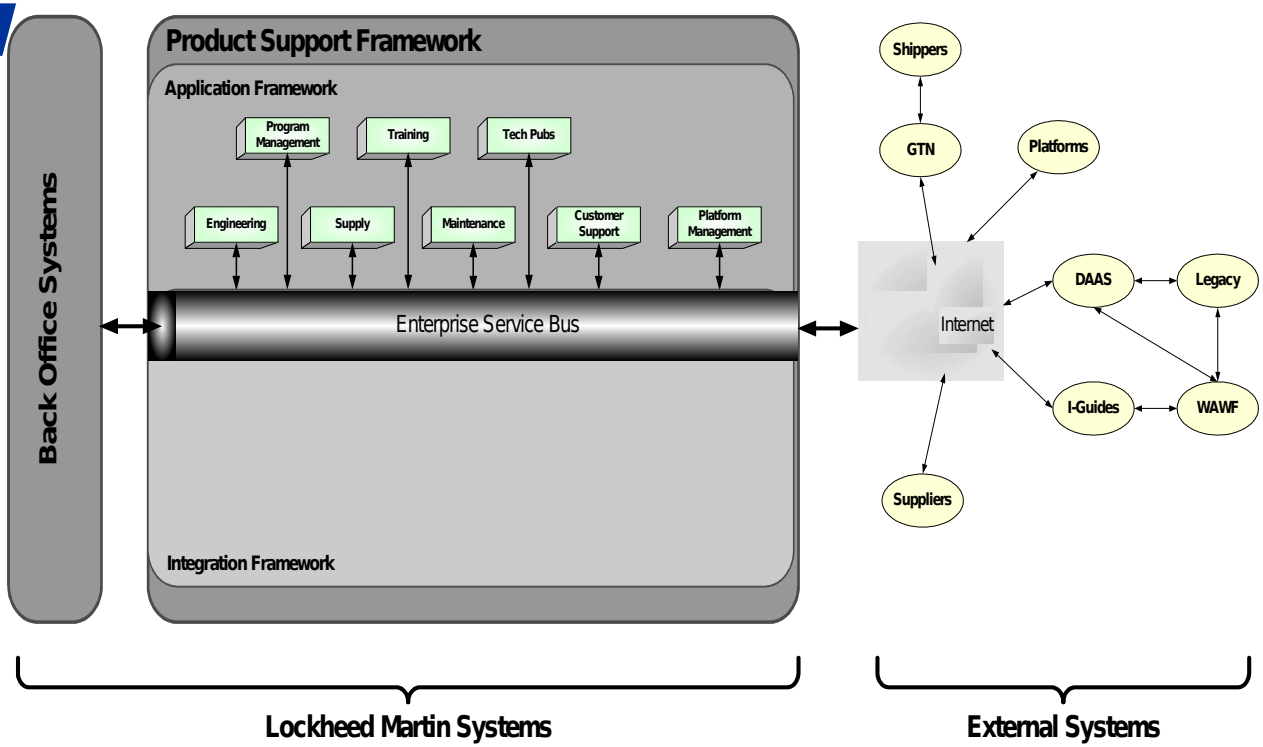
Today's Logistics
Modernized
TADS/PNVS
16 LRUs, 38 LRMs

2 Level Maintenance

M-TEU

Ensuring Outcomes Tomorrow

- **Design for Supportability**
- **Embedded in LM Process**
- **Continuous Process Improvement**
- **Established in Partnership**
- **Providing improved performance at reduced cost**



We Need Your Help

- **Maintain Focus on Platform Level PBLs**
- **Embed Sustainment Outcomes in Source Selection**
- **Move to Greater Consistency in Contract Requirements**

. . . To Improve Warfighter Sustainment Outcomes